



# CEMGROUT HF

## HIGH FLOW, HIGH STRENGTH, NON-SHRINK, CEMENTITIOUS GROUT



**25kg**

### APPLICATION:

Saturate the concrete substrate with water just prior to concrete application. Avoid water ponding. Typical application depths are from 5mm to 200mm. Pour the Cemix® Cemgrout HF into place while the substrate is still damp. Use a suitable header box delivery system and air vents as described above. Application is from one side only completely filling the void & avoiding air entrapment. Rod grout to move & compact as required. Trowel finish as required.

### CURING:

It is very important to prevent early plastic state moisture loss prior to the product setting. Cure product thoroughly after it has set by keeping it wet & covered for at least 7 days.

### DESCRIPTION:

Cemix® Cemgrout HF is a high performance, high flow, non-shrink cementitious grout. It contains admixtures that provide positive expansion when the grout is in its plastic state and is also shrinkage compensated when in the hardened state. Characteristics include high flow, plastic expansion, high strength, shrinkage compensation, excellent substrate adhesion and durability.

### TYPICAL APPLICATION/USES:

Cemix® Cemgrout HF may be used for:

- All high performance high flow grouting applications
- Structural bearing pads
- Machine and equipment support
- Tank support
- Structural base plate support
- Anchors, bolts, starters & dowels
- Void filling
- Tunnel lining grouting
- Precast connections and between precast elements

### ADVANTAGES:

- Very high flow
- High strength
- Pourable or pumpable
- One component
- Shrinkage compensated
- Short curing times
- High bond strength
- Durable
- Low chloride ion permeability
- Improved abrasion resistance

### SUBSTRATE PREPARATION:

Substrates should be clean & free from all contaminants, loose particles, coatings, curing compounds, dirt, mould, oil etc. Substrates must be sound, rough & dampened to ensure a good bond.

### FORMWORK PREPARATION:

The area to be grouted must be enclosed with good quality rigid watertight formwork. The formwork should be constructed with enough room to use a grout header box system. The formwork must be able to rigidly confine the Cemix® Cemgrout HF until it has set. Treat the formwork with a Cemix form release agent. Formwork should be flushed out just prior to application.

### HEADER BOX & AIR VENTS:

Use a suitable grout header box delivery system to pour the product into place. Create a head of pressure in the header box to force the grout into place. Keep the header box full of grout at a level well above the finished grout level. Avoid air entrapment by applying from one-side and use suitable air vents to vent air as the grout flows into place.

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**TECHNICAL DATA:**

<b>APPEARANCE:</b>	Sand / Cement Grey
<b>HEIGHT CHANGE:</b>	Positive Expansion
<b>STRENGTH:</b>	60MPa @ 7 days; 75MPa @ 28days; Restrained; 3.2L of water.
<b>APPLICATION TEMP:</b>	5°C - 30°C
<b>BOND STRENGTH</b>	>3MPa
<b>CHLORIDE ION PERMEABILITY:</b>	<1000 Coulombs
<b>WORKING TIME:</b>	60mins @ 20°C
<b>CRD FLOW CONE TIMES:</b>	15mins: 32 secs 45mins: 32 secs
<b>THERMAL COEFF. OF EXP:</b>	9.0 x 10 <sup>-6</sup> mm/mm/°C
<b>CONSISTENCY:</b>	Fluid @ 3.2L water; 20 - 30 secs efflux time.

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations may occur on site.*

**COVERAGE:**

Approximately 10.4L or 0.0104m<sup>3</sup> per 20kg bag @ 3.2L of water.

**PACKAGING:**

Cemix® Cemgrout HF is available in 20kg bags.

**STORAGE & SHELF LIFE:**

Cemix® Cemgrout HF can be stored in its original packaging in a dry place well sealed for six (6) months after production. Do not store opened bags.

**CLEANING:**

Clean all tools with water & brush immediately after use.

**MOVEMENT / CONTROL JOINTS:**

Honour any control joints in the concrete substrate – do not apply product over control joints. Create control joints in the grout as required especially in long thin sections.

**MIXING:**

Mix whole bags of product. Mix thoroughly for 4 - 5 minutes using a drill & paddle or suitable mechanical grout mixer. If a less fluid consistency is required, less water can be added. More water will increase flow but reduce strengths. Add 3.0L of water to the mixer & then add the product to the water. Add rest of water slowly whilst mixing until the desired consistency is achieved. Typical total water for a fluid consistency is approximately 3.2L per 20kg bag. In very hot weather use chilled mixing water. In very cold weather use warmer mixing water. Re-mix product every 10 minutes or if it has been sitting for a while.

**MIXING WATER DOSAGES:**

MIXING WATER	YIELD (M <sup>3</sup> )	CONSISTENCY	MPa (RESTRAINED)
<b>3.2L WATER:</b>	0.0104m <sup>3</sup>	Fluid	7days 60MPa 28days 75.0MPa

**Limitations:**

- Do not apply product onto surfaces less than 5°C & more than 30°C.

**Precautions:**

- Large / deep volumes of grout can generate excessive heat whilst hardening. This may lead to thermal cracking. For large volume applications consider using Cemix® Structural Repair Flowable.
- In very hot weather, use chilled mixing water.
- In very cold weather, use warm mixing water.
- More mixing water will increase flow but reduce strengths.

**SAFETY:**

Avoid contact with eyes & skin, both from wet & dry mix. Do not breathe in dust. Wear suitable protective clothing, gloves, eye protection & barrier cream. Wear a suitable dust mask. Wash thoroughly after handling & store any leftover material properly.

**FIRST AID:**

Irrigate eyes & skin with plenty of water & seek medical advice immediately.

**SPILLS AND LEAKS:**

Keep out of sewers & storm water drains & dispose of any leftover material as trade waste in accordance with local authority guidelines.

**DISCLAIMER:**

Please Note: Recommendations and advice regarding the use of this product are to be taken as a guide only. Other than as appears on this products packaging, Cemix® LTD. does not give any warranty express or implied as to the suitability of this product for your particular use, because the usage of this product is beyond the control of Cemix® LTD. If you need advice concerning the use of suitability of this product for your particular application, please contact Cemix® LTD first. If this product is defective because of Cemix® LTD's fault, please contact the supplier or Cemix® LTD. who will replace it at no cost.

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